



Crop Soil News

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"It is the crops that feed the cows that make the milk which creates the money."

Advanced Ag Systems
Research, Education, Consulting

Cornell Corn Silage Variety Trial 2010 Corn Population - Are You Missing Yield?

In the effort to save on seed costs, some farms are reducing the plants/acre in their stand. The comments often come in regard to the BMR or leafy types that they do best at lower populations. This may not be the most economical move based on an excellent study by Dr. Cox and his staff at Cornell.

As you can see in table #1, planting a leafy hybrid at less than 35,000 seeds/acre gave up \$56 - \$100 of corn silage/acre. The vast majority of the yield is in the stalks and ears, not

Table 1. Planting rate effects on moisture and yield (tons/acre@65% moisture) of two Pioneer, two DeKalb, two leafy, and two brown midrib (BMR) corn silage hybrids, averaged across the 2008 and 2009 growing seasons, at the Aurora Research Farm.

| PLANTING RATE Kernels/acre | HYBRIDS | | | | | | | |
|-------------------------------|----------|--------|-------|------|--|-------------|-------------|-------------|
| | MOISTURE | | | | YIELD | | | |
| | Pioneer | DeKalb | Leafy | BMR | Pioneer | DeKalb | Leafy | BMR |
| | -----% | | | | -----tons/acre (65% H ₂ O)----- | | | |
| 25,000 | 67.1 | 67.9 | 66.3 | 69.0 | 25.3 | 25.5 | 23.2 | 22.2 |
| 30,000 | 66.7 | 67.9 | 66.6 | 68.9 | 26.0 | 25.6 | 24.3 | 24.0 |
| 35,000 | 66.5 | 68.1 | 66.1 | 68.7 | 26.6 | 26.0 | 25.7 | 24.8 |
| 40,000 | 67.3 | 67.9 | 66.4 | 69.2 | 27.6 | 25.8 | 25.8 | 24.8 |
| Avg. | 66.9 | 67.9 | 66.3 | 69.0 | 26.4 | 25.7 | 24.8 | 23.9 |

the leaves. Optimized population gives the maximum number of stalks and ears for top economic yield. For the BMR types, Dr. Cox found that dropping the population below the 35,000 gave up \$32 - \$104 of corn silage/acre. He did not indicate there was any difference in lodging at the 35,000 seeding rate.

As we are growing dairy forage quality, not just yield, the impact of quality components must also be considered. Looking at these components in table #2 on the next page, you can see that the NDF was slightly higher at the 40,000 rate, there was no difference planting any of the varieties at the recommended 35,000 drop rate. There was NO difference in the digestibility of that NDF regardless of population.

The other factor to consider is the size of the ear, or more importantly, the percentage of the total yield that is starch. Again looking at the table on the next page, there is no difference from 25 through 40,000 seed drop. Thus the recommendation for 35,000 seeds dropped/acre, still is optimum. This is just short of 2.3 acres per bag of 80,000 count. The seed cost may be high but in the big picture, is a small part of the whole corn silage yield component.

If you want the best out of the seed, you would be better served going over your corn

Table 2. Planting rate effects on silage quality, including neutral detergent fiber (NDF), 30-hr NDF digestibility (NDFD), crude protein (CP), and starch of two Pioneer, two DeKalb, two leafy, and two brown midrib (BMR) corn silage hybrids, averaged across the 2008 and 2009 growing seasons, at the Aurora Research Farm.

| PLANTING RATE Kernels/acre | HYBRIDS | | | | | | | |
|-------------------------------|-------------|-------------|-------------|-------------|--------------|--------|-------|------|
| | Pioneer | DeKalb | Leafy | BMR | Pioneer | DeKalb | Leafy | BMR |
| | NDF | | | | NDFD (30 hr) | | | |
| | % | | | | % | | | |
| 25,000 | 39.8 | 39.5 | 40.1 | 41.3 | 58.7 | 58.3 | 58.7 | 71.2 |
| 30,000 | 40.8 | 39.9 | 41.4 | 41.1 | 59.3 | 57.7 | 59.1 | 72.3 |
| 35,000 | 40.9 | 39.9 | 40.4 | 41.1 | 57.9 | 57.2 | 59.6 | 72.2 |
| 40,000 | 41.4 | 40.6 | 42.0 | 42.5 | 59.3 | 57.4 | 59.5 | 73.0 |
| Avg. | 40.7 | 39.9 | 40.9 | 41.5 | 58.8 | 57.6 | 59.2 | 72.2 |
| | CP | | | | STARCH | | | |
| 25,000 | 8.9 | 8.6 | 8.8 | 8.8 | 33.3 | 34.6 | 34.6 | 33.3 |
| 30,000 | 8.5 | 8.3 | 8.6 | 8.6 | 34.2 | 34.6 | 34.5 | 32.1 |
| 35,000 | 8.3 | 8.3 | 8.4 | 8.5 | 33.9 | 34.9 | 34.8 | 32.6 |
| 40,000 | 8.2 | 8.1 | 8.2 | 8.4 | 33.8 | 34.7 | 34.0 | |
| Avg. | 8.5 | 8.3 | 8.5 | 8.6 | 33.8 | 34.7 | 34.5 | |

planter to optimize seed placement. Finger type planters need to be calibrated each year for large acreage and at least every other year for small, to determine that everything is working correctly. Utilizing in furrow seed firmers assure more accurate placement of the seeds. You invest a tremendous amount of money growing a key energy crop for your animals, don't let the planter issues rob you of your profit.

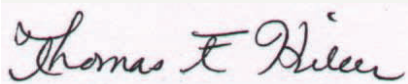
If you want to really save money, get a soil test based on Cornell Recommends. What little you could save by skimming on seed cost is thrown away many times over in "insurance" fertilizer. With the tremendous recycling of phosphorous and potassium in manure and the fact that 2/3 of your fertilizer comes in on the grain truck, there is money on the table that you can pick up with a soil test. For many farms the soil test means swapping out the old, high rate fertilizer augers for low rate ones that can apply fertilizer more accurately and uniformly at low rates. Many farms that have done it have paid for the change in one year.

In the same vein, fields that are not getting regular manure will be mined and that shortage made up with the correct fertilizer. The only way to know what fertilizer to use is a soil sample.

Cornell 2010 Corn Silage Yield Trials

On the next couple of pages are the results of the Cornell University corn silage variety trial by Dr. Cox and Dr. Cherney. This gives you an unbiased look at what varieties to consider. Note: the Aurora data shows a range of moistures. This is due to a chopper breakdown (sound familiar) in the middle of harvest.

Sincerely,



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A couple of items to consider. We had mechanical problems with the chopper at Aurora so all maturity groups were harvested on different days over about a 3 week period-so it is not good to compare across maturity groups at Aurora. The other three sites were harvested on the same day. Sackets was a tad early (wetter in moisture than actual physiological development because we harvested 4 days after a 3-inch rainfall so some rehydration occurred). We got Groveland Station just right but we were late getting to Madrid because of the aforementioned mechanical problems with the chopper that put us back a week (unfortunately the week of 90 degree days the week before Labor Day and we were losing a ½ point or more of moisture per day-and then another 3 days off for Labor Day weekend

When I average yields or milk yield across hybrid maturity groups, I throw out the BMR hybrids in making the average-if one maturity group has 3 BMRs (106-110 hybrids) and the other has no BMRs (111-115 hybrids), then not a valid comparison so I throw out the BMRs and average again.

So again, no averaging at Aurora and be careful if BMRs (you can pick them out by their NDFD values) are in a hybrid maturity group at the other three sites.

Dr. Bill Cox, Cornell University.

| Aurora, NY, 2010 | | | | | | | | | |
|------------------------|---------------|-------------------|-----------------|-------------|-------------|------------|---------------|---------------------|------------------------|
| Brand/ Company | Hybrid | Silage | | 30 hour | | | Milk2006 | | Milk2006 Milk Yield |
| | | Yield tons @65 | Moisture %DM | NDF %DM | NDFD % | CP %DM | Starch %DM | Milk/ton lbs/ton | |
| 95 to 100-d RM | | | | | | | | | |
| Dyna-Gro | D39QN29 | 26.2 | 64.9 | 39.7 | 61.2 | 8.9 | 35.0 | 3578 | 32889 |
| Mycogen | TMF 2L53 | 27.3 | 66.3 | 44.2 | 58.3 | 7.8 | 31.6 | 3366 | 32215 |
| TA Seeds | TA 477-08 | 25.0 | 62.4 | 35.9 | 57.9 | 7.9 | 38.4 | 3533 | 30794 |
| TA Seeds | TA 489-00F | 25.3 | 63.7 | 41.3 | 59.5 | 8.0 | 33.5 | 3469 | 30626 |
| TA Seeds | TA 501-12 | 25.8 | 66.9 | 42.4 | 56.3 | 8.0 | 32.9 | 3371 | 30484 |
| Hyland | HL STV50 | 24.0 | 63.0 | 43.2 | 66.0 | 7.7 | 33.8 | 3608 | 30325 |
| Doebler's | 495XY | 25.0 | 64.3 | 39.9 | 57.1 | 7.6 | 35.7 | 3457 | 30175 |
| Dairyland | HiDF 3195-Q | 23.6 | 64.6 | 39.2 | 57.6 | 7.9 | 35.2 | 3499 | 28886 |
| LICA | 1900 F/RR/HTX | 24.2 | 65.6 | 41.1 | 55.1 | 7.6 | 34.3 | 3354 | 28427 |
| Hyland | HL CVR64 | 22.9 | 63.1 | 36.9 | 56.4 | 8.5 | 37.9 | 3537 | 28279 |
| Average | | 24.9 | 64.5 | 40.4 | 58.5 | 8.0 | 34.8 | 3477 | 30310 |
| 101 to 105-d RM | | | | | | | | | |
| Growmark FS | 5667 GT3 | 27.0 | 64.8 | 38.1 | 56.8 | 7.7 | 36.7 | 3508 | 33080 |
| Master's Choice | 530 | 27.1 | 67.6 | 40.4 | 56.3 | 7.8 | 34.7 | 3442 | 32647 |
| TA Seeds | TA 557-00F | 26.9 | 62.1 | 43.7 | 59.0 | 8.0 | 32.1 | 3410 | 32089 |
| NK | N49J-3000GT | 26.2 | 65.0 | 40.4 | 59.0 | 7.5 | 35.8 | 3488 | 32004 |
| Pioneer | P0125HR | 26.0 | 64.8 | 37.1 | 56.1 | 7.8 | 37.6 | 3513 | 31954 |
| Hyland | HL SR59 | 28.0 | 65.9 | 43.9 | 54.3 | 7.8 | 30.2 | 3233 | 31674 |
| Hyland | HL B77R | 26.1 | 67.2 | 42.4 | 57.6 | 8.0 | 32.8 | 3396 | 30998 |
| Dekalb | DKC 5259 | 25.4 | 65.9 | 38.7 | 56.8 | 8.0 | 35.8 | 3489 | 30951 |
| Garst | 86T82-3000GT | 25.4 | 65.5 | 40.3 | 58.5 | 7.6 | 34.6 | 3454 | 30701 |
| TA Seeds | TA 545-20 | 25.4 | 65.9 | 40.3 | 56.8 | 7.6 | 35.2 | 3430 | 30528 |
| Pioneer | P0115XR | 25.2 | 65.6 | 39.1 | 55.1 | 7.8 | 36.0 | 3443 | 30389 |
| Doebler's | 558BMB | 23.0 | 55.9 | 37.9 | 69.3 | 7.7 | 38.0 | 3743 | 30100 |
| Pioneer | 35F40 | 24.7 | 67.4 | 40.6 | 57.8 | 7.9 | 34.1 | 3428 | 29645 |
| Pioneer | 36V53 | 23.8 | 66.0 | 38.5 | 58.3 | 8.1 | 35.8 | 3535 | 29366 |
| Dairyland | St-9703Q | 24.1 | 67.0 | 40.3 | 54.2 | 7.6 | 35.2 | 3370 | 28371 |
| Doebler's | 553GRB | 22.6 | 65.7 | 37.7 | 57.5 | 7.7 | 36.8 | 3538 | 27902 |
| Dyna-Gro | V4592VTNS | 22.3 | 66.9 | 39.7 | 59.0 | 9.3 | 31.8 | 3500 | 27337 |
| Channel | 201-16VT3P | 22.7 | 66.1 | 40.9 | 53.9 | 7.6 | 33.5 | 3357 | 26590 |
| TA Seeds | TA 525-13V | 22.0 | 66.4 | 42.2 | 54.5 | 7.8 | 33.1 | 3310 | 25416 |
| Average | | 24.9 | 65.4 | 40.1 | 57.4 | 7.9 | 34.7 | 3452 | 30091 |

| Brand/ Company | | Silage | | 30 hour | | | Milk2006 | Milk2006 | |
|------------------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Hybrid | | Yield | Moisture | NDF | dNDF | CP | Starch | Milk/ton | Milk Yield |
| | | tons @65 | %DM | %DM | % | %DM | %DM | lbs/ton | lbs/acre |
| 106 to 110-d RM | | | | | | | | | |
| Pioneer | P1011XR | 30.8 | 61.5 | 39.5 | 58.6 | 8.1 | 36.6 | 3513 | 37858 |
| LICA | 1084L HX | 31.0 | 59.8 | 43.5 | 57.5 | 7.9 | 33.9 | 3375 | 36613 |
| Dekalb | DKC 58-83 | 29.6 | 59.1 | 38.0 | 56.1 | 7.7 | 39.1 | 3497 | 36182 |
| Wolf River Valley | 2114 HX | 29.8 | 60.6 | 45.9 | 58.9 | 7.5 | 32.5 | 3356 | 34977 |
| Doebler's | 611XY | 28.3 | 57.0 | 39.2 | 57.0 | 7.4 | 38.9 | 3471 | 34361 |
| Dyna-Gro | V4884HTXRNS | 27.9 | 62.1 | 38.3 | 56.4 | 8.2 | 36.6 | 3487 | 34096 |
| Garst | 85V88-3000GT | 27.1 | 56.5 | 36.6 | 57.7 | 7.0 | 41.2 | 3585 | 33951 |
| TA Seeds | TA 565-18 | 27.5 | 58.9 | 39.5 | 59.1 | 7.2 | 37.8 | 3525 | 33837 |
| Channel | 209-77VT3 | 27.7 | 60.4 | 39.0 | 55.7 | 7.7 | 39.1 | 3450 | 33410 |
| Dekalb | DKC 57-50 | 27.1 | 58.0 | 38.1 | 56.6 | 7.3 | 38.5 | 3477 | 32940 |
| Mycogen | F2F 622 | 25.3 | 61.1 | 41.3 | 69.0 | 7.8 | 35.6 | 3689 | 32644 |
| Channel | 210-61VT3 | 26.8 | 59.6 | 39.6 | 53.2 | 7.8 | 37.9 | 3400 | 31885 |
| Dekalb | DKC 59-64 | 27.2 | 60.9 | 40.9 | 52.4 | 7.5 | 36.4 | 3315 | 31560 |
| LICA | 21SG15 | 26.7 | 58.8 | 41.9 | 54.3 | 7.5 | 37.9 | 3347 | 31292 |
| TA Seeds | TA 575-19 | 25.2 | 62.0 | 38.2 | 56.2 | 7.7 | 37.3 | 3499 | 30881 |
| Doebler's | 608BMC | 22.1 | 61.6 | 39.6 | 68.0 | 7.9 | 37.3 | 3725 | 28793 |
| Mycogen | F2F 665 | 20.6 | 68.6 | 41.9 | 65.2 | 7.7 | 35.2 | 3618 | 26057 |
| Average | | 27.1 | 60.4 | 40.1 | 58.3 | 7.6 | 37.2 | 3490 | 33020 |
| 111 to 115-d RM | | | | | | | | | |
| Dekalb | DKC 67-88 | 31.8 | 62.0 | 40.7 | 56.6 | 7.6 | 36.6 | 3433 | 38204 |
| Dekalb | DKC 63-84 | 30.4 | 61.5 | 37.8 | 56.5 | 8.0 | 38.6 | 3528 | 37544 |
| LICA | 22S17 | 30.8 | 63.2 | 45.7 | 58.4 | 7.9 | 30.7 | 3333 | 35924 |
| TA Seeds | TA 689-00F | 29.9 | 61.6 | 43.3 | 57.7 | 7.9 | 33.2 | 3389 | 35395 |
| Pioneer | P1173HR | 28.3 | 63.5 | 37.5 | 58.5 | 7.8 | 38.0 | 3556 | 35167 |
| Dyna-Gro | V5294HTXRNS | 28.2 | 62.5 | 38.3 | 55.8 | 8.2 | 35.8 | 3480 | 34307 |
| Growmark FS | 7007 GT | 27.4 | 63.1 | 40.0 | 59.7 | 8.1 | 35.8 | 3519 | 33694 |
| TA Seeds | TA 657-13VP | 27.4 | 59.9 | 37.3 | 55.2 | 7.5 | 39.9 | 3510 | 33644 |
| Channel | 214-14VT3P | 27.9 | 61.4 | 39.2 | 53.6 | 8.0 | 37.1 | 3427 | 33462 |
| Dekalb | DKC 61-69 | 27.3 | 62.3 | 38.2 | 52.6 | 7.8 | 36.5 | 3384 | 32288 |
| TA Seeds | TA 700-11 | 25.7 | 63.3 | 40.5 | 59.2 | 7.6 | 36.9 | 3480 | 31393 |
| RPM | 615HRQ | 26.3 | 62.1 | 40.8 | 51.2 | 7.5 | 35.3 | 3299 | 30321 |
| Average | | 28.4 | 62.2 | 39.9 | 56.2 | 7.8 | 36.2 | 3445 | 34278 |
| LSD 0.10 | | 2.27 | 1.57 | 2.07 | 1.73 | 0.28 | 2.37 | 87 | 2815 |
| Overall Mean | | 26.4 | 63.0 | 40.1 | 57.5 | 7.8 | 35.7 | 3463 | 31926 |

| Groveland Station, NY, 2010 | | | | | | | | | |
|-----------------------------|---------------|-----------------------------|-----------------|-------------|----------------------|------------|---------------|---------------------------------|------------------------------------|
| Brand/ Company | Hybrid | Silage Yield tons @65 | Moisture %DM | NDF %DM | 30 hour NDFD % | CP %DM | Starch %DM | Milk2006 Milk/ton lbs/ton | Milk2006 Milk Yield lbs/acre |
| 95 to 100-d RM | | | | | | | | | |
| Dyna-Gro | D39QN29 | 28.9 | 62.1 | 33.5 | 62.2 | 9.5 | 40.5 | 3672 | 37201 |
| Mycogen | TMF 2L53 | 29.0 | 64.5 | 38.5 | 59.9 | 8.4 | 36.4 | 3461 | 35097 |
| TA Seeds | TA 477-08 | 26.9 | 62.1 | 34.9 | 61.4 | 8.5 | 40.7 | 3618 | 33970 |
| Hyland | HL STV50 | 27.4 | 62.9 | 37.4 | 60.4 | 8.1 | 38.3 | 3517 | 33760 |
| LICA | 1900 F/RR/HTX | 27.7 | 63.8 | 35.9 | 57.5 | 8.2 | 39.5 | 3458 | 33529 |
| TA Seeds | TA 501-12 | 25.5 | 65.9 | 36.3 | 59.4 | 8.5 | 37.5 | 3519 | 31438 |
| Doebler's | 495XY | 22.1 | 61.8 | 35.0 | 60.7 | 8.4 | 40.0 | 3595 | 27826 |
| Dairyland | HiDF 3195-Q | 21.7 | 63.7 | 35.7 | 62.7 | 9.1 | 38.9 | 3608 | 27338 |
| TA Seeds | TA 489-00F | 21.4 | 63.1 | 37.2 | 61.0 | 9.1 | 35.8 | 3500 | 26178 |
| Hyland | HL CVR64 | 20.8 | 63.4 | 36.0 | 58.2 | 10.0 | 35.0 | 3448 | 25057 |
| Average | | 25.1 | 63.3 | 36.0 | 60.4 | 8.8 | 38.3 | 3539 | 31139 |
| 101 to 105-d RM | | | | | | | | | |
| NK | N49J-3000GT | 30.2 | 60.2 | 35.2 | 62.0 | 7.8 | 41.8 | 3593 | 37966 |
| Hyland | HL SR59 | 30.8 | 65.7 | 38.3 | 59.2 | 8.4 | 35.6 | 3435 | 37105 |
| Garst | 86T82-3000GT | 29.1 | 62.1 | 34.2 | 60.3 | 7.9 | 40.3 | 3588 | 36582 |
| Doebler's | 553GRB | 28.5 | 62.0 | 33.3 | 60.4 | 8.0 | 41.2 | 3617 | 36049 |
| Pioneer | 35F40 | 28.2 | 65.0 | 35.8 | 60.3 | 8.4 | 39.2 | 3531 | 34792 |
| Pioneer | 36V53 | 28.2 | 63.2 | 38.1 | 62.8 | 8.2 | 38.9 | 3525 | 34761 |
| Master's Choice | 530 | 28.0 | 67.0 | 35.5 | 58.3 | 8.4 | 38.9 | 3524 | 34444 |
| Dekalb | DKC 5259 | 27.1 | 61.6 | 35.5 | 60.6 | 8.0 | 40.7 | 3563 | 33704 |
| Pioneer | P0125HR | 27.0 | 63.0 | 34.7 | 60.4 | 8.3 | 39.8 | 3561 | 33640 |
| TA Seeds | TA 545-20 | 26.9 | 63.5 | 35.1 | 60.5 | 8.1 | 38.7 | 3558 | 33531 |
| Channel | 201-16VT3P | 27.5 | 62.2 | 37.4 | 58.4 | 7.8 | 38.3 | 3452 | 33203 |
| Hyland | HL B77R | 27.6 | 67.7 | 38.3 | 57.9 | 8.5 | 34.5 | 3408 | 32973 |
| Growmark FS | 5667 GT3 | 26.2 | 64.2 | 35.2 | 60.0 | 8.2 | 38.6 | 3512 | 32187 |
| Dyna-Gro | V4592VTNS | 24.9 | 66.1 | 34.1 | 62.8 | 9.7 | 37.0 | 3635 | 31654 |
| Pioneer | P0115XR | 24.4 | 63.9 | 35.4 | 61.1 | 8.6 | 38.8 | 3558 | 30414 |
| TA Seeds | TA 557-00F | 24.5 | 62.0 | 37.1 | 61.3 | 9.1 | 35.7 | 3529 | 30249 |
| Dairyland | St-9703Q | 24.0 | 65.1 | 36.1 | 58.1 | 8.5 | 37.9 | 3489 | 29267 |
| TA Seeds | TA 525-13V | 21.8 | 66.4 | 38.7 | 59.2 | 8.5 | 37.2 | 3431 | 26111 |
| Doebler's | 558BMB | 19.1 | 64.6 | 38.4 | 72.8 | 8.8 | 34.3 | 3691 | 24627 |
| Average | | 26.5 | 64.0 | 36.1 | 60.9 | 8.4 | 38.3 | 3537 | 32803 |

| Brand/ Company | Hybrid | Silage | | 30 hour | | | Milk2006 | Milk2006 | |
|------------------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| | | Yield | Moisture | NDF | dNDF | CP | Starch | Milk/ton | Milk Yield |
| | | tons @65 | %DM | %DM | % | %DM | %DM | lbs/ton | lbs/acre |
| 106 to 110-d RM | | | | | | | | | |
| Channel | 209-77VT3 | 30.5 | 64.3 | 35.5 | 58.9 | 8.6 | 39.1 | 3510 | 37388 |
| Pioneer | P1011XR | 29.9 | 67.6 | 38.9 | 60.8 | 9.2 | 33.4 | 3436 | 35985 |
| Dekalb | DKC 59-64 | 30.2 | 66.0 | 37.8 | 56.2 | 7.8 | 37.9 | 3384 | 35762 |
| Dekalb | DKC 58-83 | 28.8 | 65.0 | 36.3 | 59.9 | 8.5 | 37.7 | 3525 | 35488 |
| Channel | 210-61VT3 | 29.0 | 66.1 | 38.6 | 59.1 | 8.7 | 35.4 | 3441 | 34899 |
| Garst | 85V88-3000GT | 28.7 | 64.6 | 36.6 | 56.9 | 7.8 | 38.8 | 3440 | 34575 |
| Dyna-Gro | V4884HTXRNS | 27.6 | 68.9 | 36.1 | 60.6 | 9.4 | 35.8 | 3538 | 34131 |
| Wolf River Valley | 2114 HX | 28.2 | 68.0 | 41.5 | 62.1 | 8.8 | 32.1 | 3407 | 33590 |
| Mycogen | F2F 622 | 25.5 | 68.3 | 41.2 | 71.5 | 8.8 | 31.8 | 3640 | 32539 |
| LICA | 1084L HX | 27.2 | 67.8 | 41.4 | 61.5 | 8.4 | 32.3 | 3374 | 32096 |
| LICA | 21SG15 | 27.4 | 68.1 | 41.1 | 56.8 | 8.6 | 32.3 | 3319 | 31879 |
| TA Seeds | TA 565-18 | 26.2 | 65.6 | 37.5 | 59.8 | 8.1 | 36.5 | 3469 | 31852 |
| TA Seeds | TA 575-19 | 25.9 | 66.4 | 37.6 | 58.9 | 8.3 | 37.3 | 3497 | 31734 |
| Doebler's | 611XY | 24.8 | 65.4 | 37.3 | 60.4 | 8.4 | 37.2 | 3499 | 30340 |
| Mycogen | F2F 665 | 24.1 | 68.4 | 40.9 | 70.3 | 8.9 | 30.5 | 3558 | 30060 |
| Dekalb | DKC 57-50 | 24.9 | 64.2 | 37.7 | 58.5 | 8.1 | 38.3 | 3448 | 30060 |
| Doebler's | 608BMC | 22.9 | 68.8 | 37.0 | 69.4 | 8.7 | 34.5 | 3607 | 28836 |
| Average | | 27.2 | 66.7 | 38.4 | 61.3 | 8.5 | 35.3 | 3476 | 33012 |
| 111 to 115-d RM | | | | | | | | | |
| Dyna-Gro | V5294HTXRNS | 31.1 | 68.5 | 35.2 | 59.9 | 8.8 | 37.1 | 3581 | 38960 |
| Dekalb | DKC 67-88 | 33.3 | 68.2 | 41.9 | 59.7 | 8.7 | 32.1 | 3339 | 38912 |
| Dekalb | DKC 63-84 | 30.5 | 66.4 | 36.7 | 59.5 | 8.6 | 37.7 | 3502 | 37375 |
| Channel | 214-14VT3P | 30.2 | 67.1 | 37.6 | 57.7 | 8.8 | 36.1 | 3437 | 36331 |
| Growmark FS | 7007 GT | 29.0 | 67.1 | 38.4 | 63.1 | 9.0 | 36.6 | 3522 | 35817 |
| Pioneer | P1173HR | 29.1 | 68.2 | 37.4 | 61.2 | 8.4 | 37.8 | 3516 | 35777 |
| TA Seeds | TA 657-13VP | 29.4 | 65.6 | 36.7 | 57.0 | 8.4 | 38.7 | 3476 | 35709 |
| Dekalb | DKC 61-69 | 28.7 | 65.9 | 36.6 | 58.3 | 8.6 | 38.4 | 3491 | 35071 |
| TA Seeds | TA 700-11 | 25.0 | 67.6 | 38.5 | 62.3 | 8.5 | 35.5 | 3504 | 30678 |
| LICA | 22S17 | 25.5 | 70.0 | 42.0 | 58.8 | 8.9 | 30.1 | 3245 | 28979 |
| TA Seeds | TA 689-00F | 24.1 | 67.9 | 41.7 | 57.0 | 8.7 | 32.2 | 3277 | 27643 |
| RPM | 615HRQ | 21.4 | 68.0 | 40.7 | 61.1 | 9.1 | 31.6 | 3397 | 25416 |
| Average | | 28.1 | 67.5 | 38.6 | 59.6 | 8.7 | 35.3 | 3440 | 33889 |
| LSD 0.10 | | 2.28 | 1.35 | 2.02 | 1.31 | 0.42 | 1.90 | 78 | 3061 |
| Overall Mean | | 26.8 | 65.4 | 37.3 | 60.6 | 8.6 | 36.8 | 3499 | 32802 |

| Madrid, NY, 2010 | | Silage | | 30 hour | | | Milk2006 | Milk2006 | |
|-----------------------|-------------|------------------|-----------------|-------------|-------------|-------------|---------------|---------------------|------------------------|
| Brand/ Company | Hybrid | Yield tons_65 | Moisture %DM | NDF %DM | NDFD % | CP %DM | Starch %DM | Milk/ton lbs/ton | Milk Yield lbs/acre |
| 85 to 90-d RM | | | | | | | | | |
| LICA | 87S9 | 27.3 | 57.1 | 39.2 | 54.7 | 7.7 | 37.2 | 3446 | 33039 |
| Hyland | HL SR35 | 27.0 | 57.5 | 40.4 | 55.5 | 7.8 | 36.3 | 3434 | 32383 |
| Hyland | HL B24R | 25.7 | 58.3 | 38.0 | 56.2 | 7.7 | 38.8 | 3559 | 31984 |
| Master's Choice | 480 | 25.7 | 55.1 | 36.3 | 54.0 | 7.5 | 40.8 | 3560 | 31916 |
| TA Seeds | TA 290-11 | 25.5 | 54.8 | 37.7 | 54.2 | 7.3 | 40.1 | 3520 | 31441 |
| Dairyland | ST-9789 | 24.8 | 60.2 | 34.4 | 54.3 | 7.7 | 42.8 | 3605 | 31230 |
| RPM | 435 HRQ | 25.3 | 60.3 | 36.7 | 52.6 | 7.9 | 38.4 | 3515 | 31151 |
| Dekalb | DKC 38-89 | 24.7 | 57.8 | 34.7 | 51.5 | 7.3 | 42.2 | 3543 | 30661 |
| Dairyland | ST-7985 | 23.8 | 57.1 | 36.9 | 53.0 | 7.0 | 41.7 | 3498 | 29049 |
| Pioneer | P8906HR | 22.5 | 55.3 | 37.4 | 55.8 | 7.4 | 40.9 | 3540 | 27797 |
| Doebler's | 281 XY | 22.7 | 60.1 | 38.0 | 52.0 | 7.1 | 39.6 | 3458 | 27410 |
| LICA | 1890 F | 22.0 | 55.9 | 36.9 | 54.0 | 7.4 | 40.6 | 3498 | 26856 |
| Dekalb | DKC 36-34 | 21.1 | 56.9 | 35.4 | 54.2 | 7.8 | 42.0 | 3581 | 26381 |
| Average | | 24.4 | 57.4 | 37.1 | 54.0 | 7.5 | 40.1 | 3520 | 30100 |
| 91 to 95-d RM | | | | | | | | | |
| Dairyland | HiDF 3195-Q | 35.2 | 51.6 | 37.6 | 55.0 | 7.6 | 38.9 | 3522 | 43428 |
| Doebler's | 478SL | 30.9 | 59.4 | 40.7 | 56.3 | 7.7 | 34.8 | 3473 | 37502 |
| Hyland | H9407BRC | 30.4 | 58.2 | 37.4 | 54.6 | 7.5 | 37.5 | 3507 | 37321 |
| LICA | 946 LRR | 30.1 | 58.6 | 40.5 | 55.5 | 7.1 | 35.9 | 3451 | 36278 |
| Dekalb | DKC 45-52 | 30.1 | 56.3 | 36.8 | 51.4 | 7.3 | 40.7 | 3432 | 36136 |
| Dyna-Gro | 34VN19 | 28.8 | 60.3 | 36.3 | 54.8 | 8.1 | 39.3 | 3565 | 35919 |
| Mycogen | F2F 383 | 28.3 | 55.2 | 36.1 | 55.0 | 7.9 | 40.7 | 3569 | 35329 |
| Croplan | DS95RB | 28.0 | 60.7 | 36.9 | 57.1 | 7.9 | 38.8 | 3579 | 35087 |
| NK | N34N-3000GT | 28.4 | 59.2 | 36.3 | 52.1 | 7.6 | 40.3 | 3496 | 34712 |
| NK | N29T-3000GT | 27.7 | 59.2 | 34.2 | 51.6 | 7.5 | 42.2 | 3550 | 34379 |
| Mycogen | TMF 2L418 | 27.6 | 58.1 | 37.9 | 55.1 | 7.4 | 38.9 | 3498 | 33815 |
| TA Seeds | TA 451-19 | 26.8 | 59.7 | 34.2 | 53.2 | 7.7 | 42.5 | 3585 | 33589 |
| TA Seeds | TA 370-11 | 27.2 | 55.5 | 35.3 | 50.2 | 7.0 | 42.2 | 3477 | 33129 |
| Croplan | 3514 VT3 | 26.4 | 58.7 | 37.5 | 56.6 | 7.5 | 40.5 | 3560 | 32884 |
| Hyland | HL B42R | 26.0 | 59.5 | 38.0 | 52.2 | 7.6 | 40.9 | 3435 | 31249 |
| Hyland | HL B40R | 24.6 | 58.1 | 38.4 | 60.7 | 7.9 | 36.2 | 3602 | 30970 |
| Pioneer | 38H08 | 25.1 | 58.8 | 38.3 | 56.7 | 7.3 | 39.4 | 3521 | 30913 |
| Pioneer | P9512XR | 25.1 | 58.3 | 38.6 | 53.3 | 7.6 | 38.6 | 3473 | 30501 |
| TA Seeds | TA 327-20 | 23.1 | 57.7 | 38.2 | 56.8 | 7.0 | 40.1 | 3527 | 28489 |
| Doebler's | 491BMB | 21.7 | 59.4 | 35.4 | 70.9 | 7.9 | 38.2 | 3715 | 28163 |
| Average | | 27.6 | 58.1 | 37.2 | 55.5 | 7.6 | 39.3 | 3527 | 33990 |
| 96 to 100-d RM | | | | | | | | | |
| Growmark FS | 5288VT3 | 32.6 | 54.8 | 38.0 | 53.5 | 7.7 | 38.3 | 3481 | 39762 |
| Wolf River Valley | 2702 L | 32.4 | 55.9 | 40.6 | 57.1 | 7.5 | 35.3 | 3496 | 39630 |
| Doebler's | 495XY | 28.2 | 60.1 | 37.2 | 54.9 | 7.4 | 40.3 | 3531 | 34804 |
| Wolf River Valley | 2596 LRR | 27.2 | 59.7 | 37.9 | 57.9 | 7.3 | 39.0 | 3590 | 34215 |
| RPM | 515HXR | 27.7 | 61.1 | 39.9 | 55.6 | 7.8 | 40.2 | 3476 | 33612 |
| Croplan | 3724 VT3 | 26.8 | 60.8 | 37.7 | 54.7 | 7.4 | 39.9 | 3486 | 32685 |
| Average | | 29.1 | 58.7 | 38.5 | 55.6 | 7.5 | 38.8 | 3510 | 35784 |
| LSD 0.10 | | 2.65 | 3.82 | 2.39 | 2.30 | 0.40 | 2.33 | 92 | 3414 |
| Overall Mean | | 26.8 | 58.0 | 37.4 | 55.0 | 7.5 | 39.5 | 3522 | 32969 |

| Sackets Harbor, NY, 2010 | | Silage | | 30 hour | | | Milk2006 | Milk2006 | |
|-----------------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Brand/ Company | Hybrid | Yield | Moisture | NDF | NDFD | CP | Starch | Milk/ton | Milk Yield |
| | | tons_65 | %DM | %DM | % | %DM | %DM | lbs/ton | lbs/acre |
| 85 to 90-d RM | | | | | | | | | |
| LICA | 87S9 | 27.7 | 69.2 | 42.1 | 59.3 | 8.7 | 33.1 | 3395 | 32968 |
| Hyland | HL SR35 | 26.4 | 70.5 | 42.3 | 58.8 | 9.1 | 32.9 | 3373 | 31191 |
| Dairyland | ST-7985 | 25.9 | 68.8 | 40.4 | 54.6 | 8.3 | 35.9 | 3333 | 30170 |
| Master's Choice | 480 | 24.9 | 70.1 | 40.4 | 56.1 | 8.8 | 34.4 | 3383 | 29446 |
| TA Seeds | TA 290-11 | 24.1 | 68.7 | 41.0 | 58.3 | 8.7 | 35.3 | 3416 | 28787 |
| Pioneer | P8906HR | 23.8 | 66.9 | 41.4 | 58.7 | 9.0 | 33.8 | 3403 | 28298 |
| Dairyland | ST-9789 | 23.1 | 70.5 | 39.5 | 58.3 | 9.1 | 34.8 | 3418 | 27538 |
| Dekalb | DKC 38-89 | 22.7 | 71.1 | 39.5 | 57.5 | 9.0 | 34.1 | 3399 | 27028 |
| RPM | 435 HRQ | 22.9 | 71.5 | 42.0 | 55.7 | 8.8 | 31.7 | 3318 | 26579 |
| Hyland | HL B24R | 23.2 | 69.6 | 42.8 | 55.8 | 8.5 | 31.1 | 3270 | 26530 |
| Doebler's | 281 XY | 21.8 | 68.6 | 40.1 | 57.6 | 8.7 | 35.3 | 3409 | 26038 |
| LICA | 1890 F | 20.6 | 70.7 | 41.8 | 60.0 | 8.7 | 33.9 | 3392 | 24443 |
| Dekalb | DKC 36-34 | 18.9 | 69.3 | 41.8 | 57.0 | 9.6 | 30.5 | 3304 | 21805 |
| Average | | 23.5 | 69.6 | 41.2 | 57.5 | 8.8 | 33.6 | 3370 | 27755 |
| 91 to 95-d RM | | | | | | | | | |
| LICA | 946 LRR | 26.2 | 69.7 | 43.0 | 62.1 | 8.1 | 33.6 | 3442 | 31606 |
| Croplan | DS95RB | 24.6 | 70.4 | 41.9 | 61.4 | 9.0 | 32.5 | 3427 | 29442 |
| TA Seeds | TA 451-19 | 24.8 | 70.0 | 39.2 | 55.8 | 9.0 | 35.1 | 3381 | 29374 |
| Mycogen | TMF 2L418 | 24.4 | 71.5 | 42.7 | 58.4 | 8.7 | 30.1 | 3325 | 28396 |
| Doebler's | 478SL | 23.9 | 71.1 | 43.2 | 60.3 | 8.4 | 31.3 | 3385 | 28298 |
| NK | N34N-3000GT | 24.4 | 70.9 | 43.1 | 56.0 | 8.4 | 32.1 | 3261 | 27881 |
| Pioneer | 38H08 | 23.9 | 67.7 | 41.1 | 56.5 | 8.0 | 34.7 | 3336 | 27822 |
| Pioneer | P9512XR | 24.5 | 68.6 | 43.2 | 53.5 | 8.1 | 32.0 | 3231 | 27639 |
| Croplan | 3514 VT3 | 22.8 | 71.4 | 40.6 | 59.5 | 8.7 | 33.6 | 3417 | 27308 |
| Mycogen | F2F 383 | 21.3 | 72.2 | 44.7 | 74.5 | 8.9 | 29.1 | 3650 | 27181 |
| Dekalb | DKC 45-52 | 23.4 | 71.8 | 42.1 | 57.0 | 8.7 | 32.6 | 3297 | 26989 |
| Dairyland | HiDF 3195-Q | 23.7 | 71.8 | 44.5 | 56.5 | 8.7 | 31.1 | 3246 | 26875 |
| TA Seeds | TA 327-20 | 22.4 | 68.4 | 40.3 | 57.1 | 8.4 | 36.1 | 3392 | 26599 |
| NK | N29T-3000GT | 22.4 | 70.7 | 39.2 | 54.6 | 8.5 | 35.4 | 3374 | 26366 |
| TA Seeds | TA 370-11 | 21.9 | 70.7 | 39.6 | 53.2 | 8.4 | 34.6 | 3323 | 25399 |
| Doebler's | 491BMB | 19.6 | 72.3 | 40.0 | 74.5 | 8.9 | 32.3 | 3691 | 25324 |
| Hyland | HL B42R | 22.2 | 71.9 | 41.8 | 54.1 | 9.6 | 31.1 | 3246 | 25171 |
| Dyna-Gro | 34VN19 | 20.9 | 73.6 | 41.7 | 59.1 | 9.3 | 31.7 | 3391 | 24778 |
| Hyland | HL B40R | 20.8 | 70.2 | 41.0 | 57.1 | 9.2 | 32.3 | 3352 | 24335 |
| Hyland | H9407BRC | 20.4 | 71.7 | 43.2 | 57.8 | 8.6 | 30.9 | 3324 | 23650 |
| Average | | 22.9 | 70.8 | 41.8 | 58.9 | 8.7 | 32.6 | 3374 | 27021 |
| 96 to 100-d RM | | | | | | | | | |
| Wolf River Valley | 2596 LRR | 26.8 | 69.9 | 43.1 | 63.1 | 8.6 | 33.0 | 3454 | 32390 |
| Growmark FS | 5288VT3 | 25.7 | 70.8 | 40.9 | 57.5 | 8.6 | 32.7 | 3385 | 30397 |
| Wolf River Valley | 2702 L | 24.6 | 71.6 | 42.5 | 58.7 | 8.7 | 30.6 | 3369 | 29039 |
| Croplan | 3724 VT3 | 22.6 | 73.1 | 40.6 | 56.9 | 9.0 | 32.6 | 3333 | 26452 |
| RPM | 515HXR | 22.8 | 72.1 | 44.4 | 56.9 | 8.3 | 30.5 | 3260 | 25977 |
| Doebler's | 495XY | 21.6 | 70.4 | 42.5 | 57.6 | 8.4 | 32.5 | 3315 | 24957 |
| Average | | 24.0 | 71.3 | 42.3 | 58.4 | 8.6 | 32.0 | 3353 | 28202 |
| LSD 0.10 | | 2.51 | 1.45 | 1.96 | 1.61 | 0.41 | 1.87 | 91 | 3145 |
| Overall Mean | | 23.3 | 70.5 | 41.7 | 58.4 | 8.7 | 32.8 | 3370 | 27448 |